AMPERITE CO., INC.
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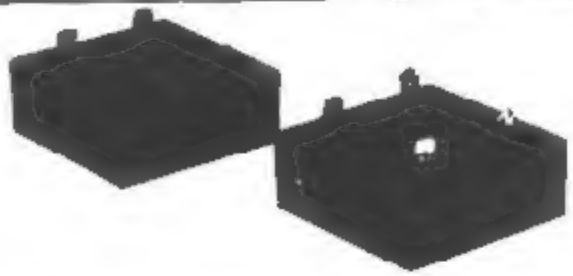
ST1 Series Solid State Delay-On-Make Timers

- 100% solid state circuitry – no moving parts
- Two terminal series connection to load
- Fixed or field adjustable delays from milliseconds to hours
- Up to 1 ampere continuous load current
- CMOS digital circuitry
- UL File #E96739 (M)
- CSA File #LR62586



TIMING MODE:

Delay on operate begins upon application of input power. The load is energized at the end of the delay period and remains so until input power is removed.

TIMING DIAGRAM:

CONTACT INFORMATION:

Solid state switching device 1 form A, normally open series connection. Continuous current rating 1 ampere. Maximum inrush 10 amperes. Minimum load current 5 milliamperes. Voltage drop typically 2.5 volts RMS @ 1 ampere.

TIMING SPECIFICATIONS:

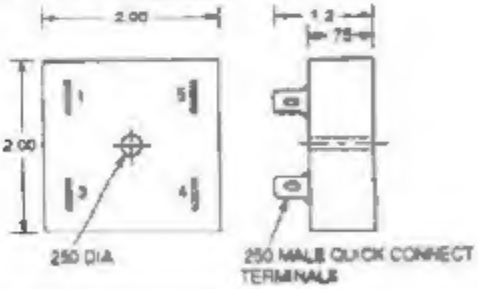
Timing: Factory fixed, or 0.1 seconds to 100 hours in any one of eight ranges. Timing is set by user supplied resistor or potentiometer.

Timing ranges:

.1 to 10 seconds	1 to 100 minutes
.2 to 20 seconds	10 to 1000 minutes
1 to 100 seconds	.1 to 10 hours
10 to 1000 seconds	1 to 100 hours
.1 to 10 minutes	

Timing tolerance: fixed units = +/- 10%
Timing repeatability: +/- 2%
Timing cycle interrupt transfer: none

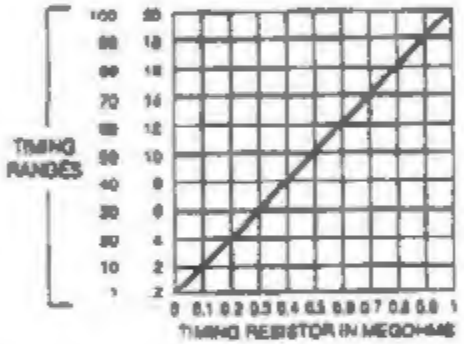
OUTLINE DIMENSIONS:



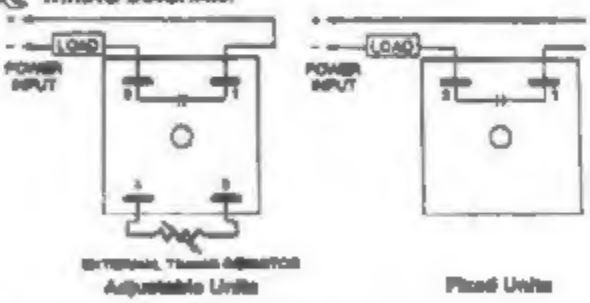
AC (60 Hz) and DC INPUT VOLTAGES & LIMITS:

Nominal	Minimum	Maximum
12V	10V	14V
24V	20V	28V
36V	30V	42V
48V	41V	55V
110V	95V	125V
120V	105V	130V
230V	190V	255V

EXTERNAL RESISTOR SELECTION:



WIRING DIAGRAM:



MECHANICAL INFORMATION:

Enclosure 2 x 2 x 3/4 inch black plastic, epoxy sealed. Center hole mounting. Two or four 1/4 inch quick connect male terminals.

Ordering Information:
Definition of a part number for the Amperite ST1 Series Time Delay Relay:
Example:

120	A	1 - 100	S	ST1
A	B	C D	E	F

- A: Denotes nominal input voltage. Voltages available 12, 24, 48, 120 and 230 volts AC, 12, 24, 36, 48 and 110 volts DC. For other voltages consult factory.
- B: Denotes type of input power required for operation. A = AC - Alternating Current; D = DC - Direct Current
- C & D: Denotes range of adjustability using an external resistor or potentiometer, where C is the minimum timing and D is the maximum timing. Standard timing span is 100:1. For fixed timing units specify a single number.
- E: Denotes unit of time delay: S = seconds; M = minutes; H = hours.
- F: Denotes Amperite ST1 Series solid state, normally open time delay.